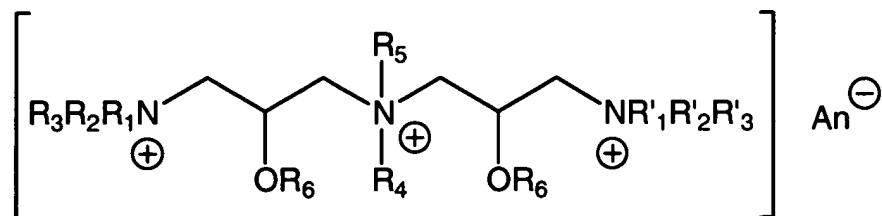


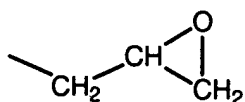
CLAIMS

WHAT IS CLAIMED IS:

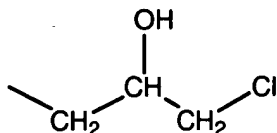
1. A compound of the formula



wherein each R₁, R'₁, R₂, R'₂, R₃, R'₃, R₄ or R₅ is independently selected from the group consisting of alkyl, aryl, aralkyl and -CH₂-CH(OR₆)-CH₂N⁺R₁R₂R₃;
wherein one or more R₆ group is selected from the group consisting of:



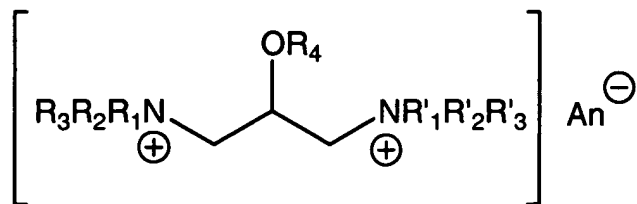
and



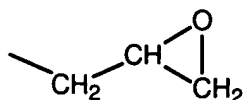
and wherein An⁻ is an anion.

2. The compound of claim 1, wherein one R₁ group and the R₄ group comprise a single alkyl group having one or more carbons, and wherein the alkyl group forms part of a cyclic structure that further comprises two positively charged nitrogen centers separated by a three-carbon fragment bearing an -OR₆ group.

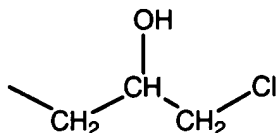
3. A compound of the formula



wherein each R₁, R'₁, R₂, R'₂, R₃ or R'₃ group is independently selected from the group consisting of alkyl, aryl, aralkyl and -CH₂-CH(OR₄)-CH₂N⁺R₁R₂R₃; wherein one or more R₄ group is selected from the group consisting of:



and



and wherein An⁻ is an anion.

4. The compound of claim 3, wherein the R₁ and R'₁ groups comprise a single alkyl group having one or more carbons, and wherein said alkyl group forms part of a cyclic structure that further comprises two positively charged nitrogen centers separated by a three-carbon fragment bearing an -OR₄ group.
5. The compound of claim 3 wherein the one or more R₄ groups is a 2,3-epoxypropyl group.
6. A modified carbohydrate formed by the reaction of:
 - a. the compound of claims 1,2,3,4 or 5; and
 - b. a carbohydrate having one or more hydroxyl groups.
7. The modified carbohydrate of claim 6 wherein the carbohydrate is a starch.
8. The method of making the compound of claim 1, 2, 3, 4, 5, 6 or 7.
9. The method of using the compound of claims 1, 2, 3, 4 or 5 to make a modified carbohydrate.

10. The method of using the modified carbohydrate of claim 6 as a waste water treatment agent.
11. The method of using the modified carbohydrate of claim 6 in a papermaking process.